

NUCLEAR AIR CLEANING HANDBOOK

PREFACE

This Nuclear Air Cleaning Handbook replaces the 1976 edition, ERDA 76-21. It benefits from over 25 years of industry experience since that document was published.

Along with U.S. Nuclear Regulatory Commission documents, and consensus standards such as the ASME “Code On Nuclear and Gas Treatment” (AG-1), this third edition of the Nuclear Air Cleaning Handbook addresses the systems and equipment used in nuclear facilities to capture and control radioactive aerosols and gases. It differs from other documents in that it is intended to be specific for U.S. Department of Energy applications.

While this is a Nuclear Air Cleaning Handbook, it is recognized that these systems have shared engineering characteristics that may, with professional discretion exercised by trained engineering and public health professionals, be applied to nonradiological toxic materials. Such materials include, but are not limited to, asbestos and other particulate carcinogens, beryllium, and biological agents.

The contents of this handbook, other than general historical information and discussions of basic air cleaning theory, cannot be applied to consumer appliances.

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